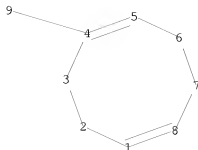
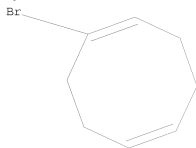


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chain nodes :

9

ring nodes :

1 2 3 4 5 6 7 8

chain bonds :

4-9

ring bonds :

1-2 1-8 2-3 3-4 4-5 5-6 6-7 7-8

exact/norm bonds :

1-2 1-8 2-3 3-4 4-5 5-6 6-7 7-8

exact bonds :

4-9

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS

L1 STRUCTURE UPLOADED

=> s l1 exa full

FULL SEARCH INITIATED 08:16:14 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 8760 TO ITERATE

100.0% PROCESSED 8760 ITERATIONS

SEARCH TIME: 00.00.01

6 ANSWERS

L2 6 SEA EXA FUL L1

=> s l2

L3 70 L2

=> s l3 and py<=2003

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L4 65 L3 AND PY<=2003

=> s l4 and py<=2002

22928594 PY<=2002

L5 60 L4 AND PY<=2002

-> d l5 50-60 ibib abs hitstr

L5 ANSWER 50 OF 60 CAPLUS COPYRIGHT 2008 ACS on STN

Title Cyclooctatetraene derivatives from bromocyclooctatetraene

Author/Inventor Harmon, Claude A.; Streitwieser, Andrew, Jr.

Patent Assignee/Corporate Source Dep. Chem., Univ. California, Berkeley, CA, USA

Source Journal of Organic Chemistry (1973), 38(3), 549-51 CODEN: JOCEAH; ISSN: 0022-3263

Document Type Journal

Language English

Abstract N,N-Dimethylaminocyclooctatetraene, cyclopropylcyclooctatetraene, and cyclooctatetraenenitrile were prepared for the first time. N,N-Diethylaminocyclooctatetraene was also prepared, but rearranged to α -N,N-diethylaminostyrene. p-Anisylcyclooctatetraene, cyclooctatetraenealdehyde, and vinylcyclooctatetraene were prepared in greatly improved yields over previously described procedures.

L5 ANSWER 51 OF 60 CAPLUS COPYRIGHT 2008 ACS on STN

Title Reaction of 1,3,5-cyclooctatrien-7-yne at various temperatures

Author/Inventor Ogliaruso, Michael A.; Lankey, Ann S.

Patent Assignee/Corporate Source Dep. Chem., Virginia Polytech. Inst., Blacksburg, VA, USA

Source Journal of Organic Chemistry (1971), 36(22), 3339-42 CODEN: JOCEAH; ISSN: 0022-3263

Document Type Journal

Language English

Abstract 1,3,5-Cyclooctatrien-7-yne (dehydrocyclooctatetraene) was reported best prepared in ether at room temperature, to afford the highest yield of adduct with a trapping agent. Yields of product from the reaction of this species with a trapping agent vary depending upon (a) when the trapping agent is added, and, (b) the temperature employed. Contrary to previous indicated reports, dehydrocyclooctatetraene is best prepared and allowed to react at temps. other than room temperature

L5 ANSWER 52 OF 60 CAPLUS COPYRIGHT 2008 ACS on STN

Title Chloro-, bromo, and iodocyclooctatetraene. Preparation and some reactions

Author/Inventor Gasteliger, Johann; Gream, George E.; Huisgen, Rolf; Konz, Will E.; Schnegg, Ulrich

Patent Assignee/Corporate Source Inst. Org. Chem., Univ. Muenchen, Munich, Ger

Source Chemische Berichte (1971), 104(8), 2412-19 CODEN: CHBEAM; ISSN: 0009-2940

Document Type Journal

Language German

Abstract The cis-7,8-dihalocycloocta-1,3,5-trienes, formed by chlorination or bromination of cyclooctatetraene (I) at -60° in CH₂Cl₂, were dehydrohalogenated in situ by KOBu-tert at -45° to give 85% bromocyclooctatetraene (II) and 74-83% chlorocyclooctatetraene, resp. Reaction of cyclooctatetraenyllithium with iodine gave iodocyclooctatetraene. Methoxy-, phenoxy-, methyl-, and phenylcyclooctatetraene were also prepared from I or II by known methods.

L5 ANSWER 53 OF 60 CAPLUS COPYRIGHT 2008 ACS on STN

Title Further contributions to the mechanism of the halocyclooctatetraene rearrangement

Author/Inventor Konz, Will E.; Hecht, Wolfgang; Huisgen, Rolf

Patent Assignee/Corporate Source Inst. Org. Chem., Univ. Muenchen, Munich, Fed. Rep. Ger.

Source Journal of the American Chemical Society (1970), 92(13), 4104-5 CODEN: JACSAT; ISSN: 0002-7863

Document Type Journal

Language English

Abstract The position of the Br in trans- β -bromostyrene, which was formed from bromocyclooctatetraene (I), was studied. I was brominated

to obtain (via II) 1,4-dibromocyclooctatetraene (III), which was converted to the dimethyl derivative by Me₂LiCu. III was gas chromatographed to obtain trans-p,β-dibromostyrene. There was a 1,3-migration of the Br atom.

L5 ANSWER 54 OF 60 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Kinetics and mechanism of the rearrangement of bromocyclooctatetraene to trans-β-bromostyrene

Author/Inventor

Huisgen, Rolf; Konz, Will E.

Patent Assignee/Corporate Source

Inst. Org. Chem., Univ. Muenchen, Munich, Fed. Rep. Ger.

Source

Journal of the American Chemical Society (1970), 92(13), 4102-4 CODEN: JACSAT; ISSN: 0002-7863

Document Type

Journal

Language

English

Abstract

A rearrangement mechanism was proposed and discussed in which the valence tautomerization of bromocyclooctatetraene (I) to 1-bromobicyclo[4.2.0]octa-2,4,6-triene (II) was followed by ionization to the homocyclopropenium salt. Ion recombination produced the cyclobutene derivative III, which formed trans-β-bromostyrene by a conrotatory ring opening. Exchange expts. with AgOAc, LiClO₄, MeOH, and LiI indicated a reversible ionization in the rate-determining step, which was verified by the effect of the solvent on the rate. However, another step (I → II) became rate-determining at high solvent polarity. First-order kinetics were observed and rate consts. were calculated for the reaction.

L5 ANSWER 55 OF 60 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Evidence for different valence tautomers of bromocyclooctatetraene

Author/Inventor

Huisgen, Rolf; Konz, Will E.; Gream, George E.

Patent Assignee/Corporate Source

Inst. Org. Chem., Univ. Muenchen, Munich, Fed. Rep. Ger.

Source

Journal of the American Chemical Society (1970), 92(13), 4105-6 CODEN: JACSAT; ISSN: 0002-7863

Document Type

Journal

Language

English

Abstract

1- and 7- Substituted bicyclic tautomers were intermediates in the reactions of bromo- (I) and chlorocyclooctatetraene (II) with 4-phenyl-1,2,4-triazoline-3,5-dione (III). A solution of II and III gave 27% IV (R = H, R' = Cl) and 30% IV (R = Cl, R' = H). I was heated with III to form 12% IV (R = H, R' = Br), 25% IV (R = Br, R' = H), trans-β-bromostyrene, and V. I competed with 1- and 7-bromobicyclo[4.2.0]octatriene for the strong dienophile III.

L5 ANSWER 56 OF 60 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Intermediate occurrence of 1,2-dehydrocyclooctatetraene

Author/Inventor

Krebs, A.

Patent Assignee/Corporate Source

Univ. Heidelberg, Germany

Source

Angew. Chem. (1965), 77(21), 966

Document Type

Journal

Language

German

Abstract

Bromocyclooctatetraene (I) treated with a suspension of Me₃COK in Et₂O at room temperature 70 hrs. gave a brown powder, insoluble in Et₂O and C₆H₆. The powder was distilled in vacuo to give 16% tert-butoxycyclooctatetraene (II), b.p. 37-8°. The residue was chromatographed on SiO₂ with CCl₄ to give 9% naphtho[2,3]cyclooctatetraene (III), m. 113-14°. Hydrolysis of II gave cycloocta-1,3,5-trien-7-one, and hydrogenation gave tert-butoxycyclooctane. Oxidation of III gave benzene-1,2,4,5-tetracarboxylic acid. Dehydrobromination of I by treating with tetraphenylcyclopentadienone or PhN₃ gave 72% 1,2,3,4-tetraphenylbenzo[5,6]cyclooctatetraene, m. 241-2°, or 38% 1-phenyl-1,2,3-triazolo[4,5]cyclooctatetraene, m. 67.5-8°, resp., which indicates the occurrence of the cyclooctyne compound as an intermediate.

L5 ANSWER 57 OF 60 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Cyclooctatriene

Author/Inventor

Sanne, Walter; Schlichting, Otto

Patent Assignee/Corporate Source
Badische Anilin- & Soda-Fabrik Akt.-Ges.
Document Type
Patent
Language
Unavailable

Patent Information

PATENT NO.	DATE	APPLICATION NO.	DATE
DE 1034626	19580724	DE 1956-B42186	19561019

Patent Number (1)
DE 1034626
Patent Publication Date (1)
19580724
Application Number (1)
DE 1956-B42186
Application Date (1)
19561019

Abstract

1,3,6-Cyclooctatriene (I) was obtained in good yield by reducing cyclooctatetraene (II) in aqueous solution with a slight excess of activated Zn in the presence of 0.06 to 0.2 equivs. of alkaline bases. A solution of CuSO₄ 2 in water 10 was added at 65° to a stirred mixture of I 624, alc. 950, water 200, and 91% Zn dust 450 parts. NaOH (40%) 50 parts was added slowly to the mixture while the temperature rose to 75-80°. The mixture was neutralized with 25% H₂SO₄ and steam distilled. After dilution of the distillate 2000 with water 6000-8000, the upper layer, containing crude I 617 was separated, dried and distilled to obtain pure I 528 parts, b₅₈ 64-5°, n_D 1.5056. Alternatively, the alkaline mixture was cooled, diluted with water 8000 parts and the separated crude I distilled to obtain pure I in 88.4% yield.

L5 ANSWER 58 OF 60 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Monohalo derivatives of cyclooctatetraene
Author/Inventor
Reicheneder, Franz; Dury, Karl
Patent Assignee/Corporate Source
Badische Anilin- & Soda-Fabrik Akt.-Ges.
Document Type
Patent
Language
Unavailable

Patent Information

PATENT NO.	DATE	APPLICATION NO.	DATE
DE 1035648	19580807	DE 1957-B43588	19570220

Patent Number (1)
DE 1035648
Patent Publication Date (1)
19580807
Application Number (1)
DE 1957-B43588
Application Date (1)
19570220

Abstract

The title compds. are prepared by reaction of a 7,8-dihalo bicyclo[0.2.4]cycloocta-2,4-diene (I) in the presence of an inert organic solvent, e.g. petr. ether, cyclohexane, cyclooctane, C₆H₆, toluene, Me₂NOCH, N-methyl- α -pyrrolidone, dioxane, tetrahydrofuran (II), and their mixts., with an alkali metal derivative of acetylene hydrocarbons, e.g. Na acetylides (III), Li acetylides, K vinylacetylides and others, at -20 to 60°. To 90 g. I (halogen = Cl) in 100 g. II is added at 0-10° with stirring 50 g. III in 500 g. II, the mixture stirred 3 hrs. at room temperature and another 1-2 hrs. at 60°, cooled, mixed with ice H₂O, extracted with Et₂O, dried, the Et₂O evaporated, and the residue distilled to give 35% monochlorocyclooctatetraene, b₅ 50-2°, and 6.5 g. cis- β -chlorostyrene. Analogously is prepared the mono-Br derivative, b_{1.5} 39-45°.

L5 ANSWER 59 OF 60 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Cyclooctatetraene derivatives
Author/Inventor
Cope, Arthur C.; Burg, Marion
Patent Assignee/Corporate Source
Merck & Co., Inc.
Document Type
Patent
Language
Unavailable
Patent Information

PATENT NO	DATE	APPLICATION NO	DATE
US 2784240	19570305	US 1952-328255	19521227

Patent Number (1)
US 2784240
Patent Publication Date (1)
19570305
Application Number (1)
US 1952-328255
Application Date (1)
19521227

Abstract

Mono-Cl and mono-Br derivs. of cyclooctatetraene are prepared by dehydrohalogenation between the cyclooctatetraene dihalide (I) and a base at low temperature. I (dichloride) (0.1 mole) in 100 ml. dry ether was treated under N with 0.111 mole PhLi with vigorous stirring and cooling over 45 min. at -5 to -2°, the mixture stirred 10 hrs., 100 ml. cold H₂O added, the orange layer washed with H₂O and the H₂O washings extracted with ether, and the extract dried and distilled gave 3.66 g. monochlorocyclooctatetraene, b₅ 50-1°, d₂₅ 1.1199, n_{D25} 1.5542, MD 39.70. Bromocyclooctatetraene (6.6 g.), b₁ 8 52.5-3°, n_{D25} 1.5870, d₂₅ 1.4206, MD 43.26, was also obtained in like manner. Monochlorocyclooctatetraene (1.37 g.) and a few mg. hydroquinone refluxed under N at 200° 2 hrs. gave 1.25 g. cis-β-chlorostyrene, b₅ 55-59°, n_{D25} 1.5762. Cis-β-chlorostyrene (150 mg.) and 3 mg. PhCl₃ heated at 220-35° 2 hrs. in a sealed tube gave cis- and trans-β-chlorostyrene, n_{D25} 1.5740. β-Bromostyrene, n_{D25} 1.6052, was obtained similarly. β-Iodostyrene was prepared from 1.38 g. chlorocyclooctatetraene, 1.95 g. NaI, and a few mg. hydroquinone in 11 ml. acetone refluxed under N 24 hrs. giving 72% β-iodostyrene, b₁ 74°, n_{D25} 1.6585. Li diethylamide and Li 2,6-dimethylpiperidine may be used instead of phenyllithium.

L5 ANSWER 60 OF 60 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Cyclic polyolefins. XIX. Chloro- and bromocyclooctatetraenes

Author/Inventor

Cope, Arthur C.; Brug, Marion

Patent Assignee/Corporate Source

Massachusetts Inst. of Technol., Cambridge

Source

Journal of the American Chemical Society (1952), 74, 168-72 CODEN: JACSAT; ISSN: 0002-7863

Document Type

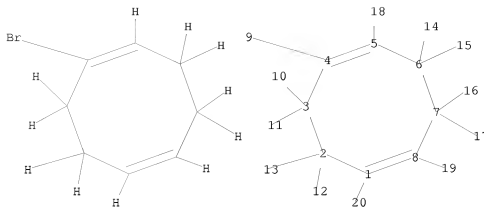
Journal

Language

Unavailable

Abstract

cf. C.A. 46, 56001, 9528d. Evidence supporting the bridged-ring structure for cyclooctatetraene dichloride (I) and dibromide (II) was obtained by oxidation of I to 3,4-dichloro-cis-1,2-cyclobutanedicarboxylic acid (IV). Dehydrohalogenation of I and II with PhLi reopened the bridged ring to give chlorocyclooctatetraene (V) and the Br compound (VI); yields 26 and 33%, resp. Hydrogenation of V and VI over Pt oxide yielded cyclooctane (VII), m. 8-11° and 8.0-11.7°, resp., n_{D25} 1.4560 and 1.4555. (M.ps. are corrected, b.ps. uncor.). Dry Cl (64.5 g.) in 200 cc. CCl₄ (prepared at -20°) added dropwise during 1.5 hrs. to 200 cc. CCl₄ at -35 to -25° containing 86 g. cyclooctatetraene (VIII), the mixture stirred 1 hr., let come to room temperature under N, and evaporated in vacuo yielded 111 g. I, b₂ 73-4°, n_{D25} 1.5382, d₄₂₅ 1.2514, l.p. 2.3°. I forms a solid dimer on standing at room temperature I (10 g.) in 100 cc. Me₂CO added during 45 min. to 83 g. KMnO₄ in 1 l. Me₂CO and 400 cc. water at 3-5°, the mixture stirred 8 hrs., let stand 33 hrs. at room temperature, filtered, and the filtrate concentrated to 0.5 volume in vacuo without heating and extracted with Et₂O, yielded 4.3 g. IV, m. 176.8-8° (decomposition). I on ozonization yielded 35% IV. IV (426 mg.) in 4 cc. water containing 0.80 g. NaOH hydrogenated 24 hrs. at room temperature and pressure over 0.5 g. Raney Ni W-7 yielded 7.7% cis-1,2-cyclobutanedicarboxylic acid (IX), m. 139°. Br (81 g.) in 100 cc. CH₂Cl₂ added during 1.5 hrs. to 52 g. VII in 150 cc. CH₂Cl₂ at -15 to -8° yielded 111 g. II, m. 34.0-4.8°. PhLi (0.111 mole) in 270 cc. Et₂O added during 45 min. to 17.5 g. I in 100 cc. Et₂O at -5 to -2°, the mixture stirred 3 hrs. (ice-salt bath) and 7 hrs. while warming to room temperature, 100 cc. cold water added, and the solution extracted with Et₂O yielded 3.66 g. V, b₅ 51-2°, n_{D25} 1.5542, d₄₂₅ 1.1199, MRD 39.70 (calculated 39.94). II (21 g.) in 100 cc. Et₂O and 0.078 mole PhLi in 270 cc. Et₂O yielded 4.64 g. VI, b₁ 8 52.5-53°, n_{D25} 1.5870, d₄₂₅ 1.4206, MRD 43.26 (calculated 42.84). V (1.37 g.) and a few mg. p-C₆H₄(OH)₂ (X) refluxed 2 hrs. under N (bath temperature 200-10°) yielded 1.25 g. cis-β-chlorostyrene (XI), b₅ 55-59°, n_{D25} 1.5762, d₄₂₅ 1.1046; which on hydrogenation yielded PhEt, n_{D25} 1.4923; oxidation of XI with CrO₃ yielded BzOH. XI (150 mg.) and 3 mg. PhCl₃ heated in N 2 hrs. at 200-35° (sealed) yielded a mixture of XI and the trans compound VI (0.75 g.) and X heated 0.5 hrs. under N yielded 0.63 g. β-bromostyrene, b₀ 65 55-6°, n_{D25} 1.6055, fragrant odor. V (1.38 g.), 1.95 g. NaI, and X in 11 cc. Me₂CO refluxed 24 hrs. under N yielded 1.65 g. β-iodostyrene, b₁ 74°, n_{D25} 1.6585. Ultraviolet absorption spectra are given.



chain nodes :

9 10 11 12 13 14 15 16 17 18 19 20

ring nodes :

1 2 3 4 5 6 7 8

chain bonds :

1-20 2-12 2-13 3-10 3-11 4-9 5-18 6-14 6-15 7-16 7-17 8-19

ring bonds :

1-2 1-8 2-3 3-4 4-5 5-6 6-7 7-8

exact/norm bonds :

1-2 1-8 2-3 3-4 4-5 5-6 6-7 7-8

exact bonds :

1-20 2-12 2-13 3-10 3-11 4-9 5-18 6-14 6-15 7-16 7-17 8-19

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS

L6 STRUCTURE UPLOADED

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FULL SEARCH INITIATED 08:18:31 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 8760 TO ITERATE

100.0% PROCESSED 8760 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

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L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN

=> s l7

L8 6 L7

=> s l8 and py<=2003

23976327 PY<=2003

L9 6 L8 AND PY<=2003

=> d 19 1-6 ibib abs

L9 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title Preparation of 1,5-cyclooctadiyne and 1,3,5,7-cyclooctatetraene from 1,5-cyclooctadiene
Author/Inventor Detert, Heiner; Rose, Bernd; Mayer, Winfried; Meier, Herbert
Patent Assignee/Corporate Source Inst. Org. Chem., Univ. Mainz, Mainz, D-55099, Germany
Source Chemische Berichte (1994), 127(8), 1529-32 CODEN: CHBEAM; ISSN: 0009-2940
Document Type Journal
Language German

Abstract Bromination of 1,5-cyclooctadiene and stepwise dehydrobromination with KOCMe₃ and then KOCMe₃/18-crown-6 yields 1,5-cyclooctadiyne (5). Prolonged interaction with the base causes complete transformation to cyclooctatetraene. Diyne 5 and even more the intermediate 1-bromo-1-cyclooctenyne are highly reactive dienophiles. The cycloadducts formed with 1,3-cyclohexadiene, carbon disulfide, and tetraphenylcyclopentadienone were isolated and characterized. Treatment of 5 with titanium tetrachloride induces a vigorous polymerization

L9 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title Trimethylsilylcyclooctadiene-transition metal complexes: metal-catalyzed protodesilylation of cyclic vinylsilanes, and transfer hydrogenation promoted by the displaced silyl group
Author/Inventor Bandodakar, Balachandra S.; Nagendrappa, Gopalpur
Patent Assignee/Corporate Source Dep. Chem., Bangalore Univ., Bangalore, 560 001, India
Source Journal of Organometallic Chemistry (1992), 430(3), 373-83 CODEN: JORCAI; ISSN: 0022-328X
Document Type Journal
Language English

Abstract Complexes of 1-trimethylsilyl-1,5-cyclooctadiene (TMS-COD) with AgI, RhI, PdII and PtII have been prepared and characterized. The distortion in their structures in comparison with the near sym. structures of the corresponding, 1,5-cyclooctadiene (COD) complexes, which is obviously attributable to the presence of vinyllic SiMe₃ group, is clearly indicated by their ¹H and ¹³C NMR spectral characteristics. The silver complex is somewhat unstable, but the other complexes are quite stable. An unstable CuI complex that could not be satisfactorily characterized was also obtained. If appropriate conditions for the preparation of Rh and Pd complexes are not maintained, desilylation occurs, accompanied by reduction of COD to cyclooctene by transfer of hydrogen from the solvent etc. The displaced silicon-containing moiety seems to enhance the transfer hydrogenation. Attempts to prepare a RuII complex resulted in the formation of a complex of desilylated diene (RuII-COD).

L9 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title A simple preparation of cyclic vinylic bromides (1-bromocycloalkenes and 1-bromo-1,5-cyclooctadiene) from 1,2-dibromocycloalkanes
Author/Inventor Bandodakar, Balachandra S.; Nagendrappa, Gopalpur
Patent Assignee/Corporate Source Dep. Chem., Bangalore Univ., Bangalore, 560 001, India
Source Synthesis (1990), (9), 843-4 CODEN: SYNTBF; ISSN: 0039-7881
Document Type Journal
Language English

Abstract 1,2-Dibromocyclopentane, -cyclohexane, -cycloheptane, -cyclooctane, and -cyclododecane, and 5,6-dibromocyclooctene are smoothly dehydrobrominated to the corresponding 1-bromocycloalkenes in 45-84% yield using morpholine-DMSO in C₆H₆ or EtOH.

L9 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title 9-Oxabicyclo[6.1.0]nonynes
Author/Inventor Mayer, Winfried; Meier, Herbert
Patent Assignee/Corporate Source

Inst. Org. Chem., Univ. Mainz, Mainz, D-6500, Fed. Rep. Ger.

Source Chemische Berichte (1989), 122(3), 509-17 CODEN: CHBEAM; ISSN: 0009-2940

Document Type Journal

Language German

Abstract Semiempirical quantum mechanics (MNDO) and force field calcs. (MM2) reveal that two diastereomeric conformations of low energy exist for each of the three isomeric cis-9-oxabicyclo[6.1.0]nonynes I (n, m = 0,4; 1,3; 2,2). I are accessible by the selenadiazole method or by dehydrobromination. Conformational anal. by NMR spectroscopy confirms the predicted equilibrium for I (n = 1, m = 3); for I (n = 0 m = 4) both conformers even at -60°C show a fast equilibration by inversion of the eight-membered ring, and only one conformation is populated.

L9 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title Photolysis of some 1-substituted cycloocta-1,5-dienes: synthesis of 1-fluorotricyclo[3.3.0.02,6]octane

Author/Inventor Cotsaris, Evangelo; Della, Ernest W.

Patent Assignee/Corporate Source Sch. Phys. Sci., Flinders Univ. South Australia, Bedford Park, 5042, Australia

Source Australian Journal of Chemistry (1990), 33(11), 2561-4 CODEN: AJCHAS; ISSN: 0004-9425

Document Type Journal

Language English

Abstract In a study of the photolysis of several of cycloocta-1,5-diene derivs. as possible precursors of bridgehead-substituted tricyclo[3.3.0.02,6]octanes, only 1-fluoro-1,5-cyclooctadiene successfully underwent photocyclization, giving 1-fluorotricyclo[3.3.0.02,6]octane. 1-Bromo-1,5-cyclooctadiene suffered fission of the carbon-bromine bond, while 1,5-cyclooctadiene-1-carbonitrile afforded a mixture of at least 4 unsatd. isomers.

L9 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title Importance of the aromatic ring in adrenergic amines. 2. Synthesis and adrenergic activity of some nonaromatic six- and eight-membered ring analogs of β -phenylethanolamine

Author/Inventor Grunewald, Gary L.; Grindel, Joseph M.; Patil, Popat N.; Salman, Kadhim N.

Patent Assignee/Corporate Source Sch. Pharm., Univ. Kansas, Lawrence, KS, USA

Source Journal of Medicinal Chemistry (1976), 19(1), 10-16 CODEN: JMCMAR; ISSN: 0022-2623

Document Type Journal

Language English

Abstract Title analogs 2-cyclohexyl-2-hydroxyethylamine-HCl (I) [57559-32-7] and 2-cyclooctyl-2-hydroxyethylamine-HCl (II) [57559-31-6] and unsatd. analogs 2-(cyclohexen-4-yl)- [57559-51-0], 2-cyclooctatetraenyl- [57559-48-5], 2-cyclooctenyl- [57559-49-6], 2-cycloocta-1,3-dien-2-yl- [57559-50-9], and 2-(cycloocta-1,5-dien-2-yl)-2-hydroxyethylamine-HCl [57230-10-1] were prepared by conversion of the corresponding aldehydes to the cyanohydrins, followed by reduction. All compds. had indirect adrenergic activity on the rat vas deferens and on the reserpinized rat vas deferens they potentiated the effects of exogenous norepinephrine. The more saturated the ring moiety, the greater the affinity of the compound was for the amine uptake site of the vas deferens. There was no evidence of interaction of the drug and the uptake site involving π -complex formation.

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